CLAIMS

1	1. A method for treating melanoma in a mammalian subject, comprising the
2	step of administering to the subject an immunologically-effective amount of a xenogeneic
3	differentiation antigen of the same type as a differentiation antigen expressed by melanoma cel
4	of the subject.
1	2. The method according to claim 1, wherein the xenogeneic melanoma-
2	associated differentiation antigen is tyrosinase.
41	3. The method according to claim 1, wherein the xenogeneic melanoma-
	associated differentiation antigen is gp75.
	The method according to claim 1, wherein the xenogeneic antigen is a
	human differentiation antigen, and the subject is a non-human mammal.
14: 11:	5. The method according to claim 4, wherein the xenogeneic melanoma-
2	associated differentiation antigen is tyrosinase.
1	6. The method according to claim 4, wherein the xenogeneic melanoma-
2	associated differentiation antigen is gp75.
1	7 The method according to claim 1, wherein the xenogeneic differentiation
2	antigen is a murine differentiation antigen.
1	8. The method according to claim 7, wherein the subject is a human.
1	9. The method according to claim 7, wherein the subject is a dog.

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- 10. The method according to claim 1, wherein the xenogeneic melanoma-associated differentiation antigen is administered as a vector comprising a DNA sequence encoding the xenogeneic therapeutic melanoma-associated differentiation antigen under the control of a promoter which promotes expression of the xenogeneic melanoma-associated differentiation antigen in the subject.
- 11. The method according to claim 10, wherein the xenogeneic melanoma-associated differentiation antigen is a human differentiation antigen.
 - 12. The method according to claim 11, wherein the xenogeneic melanoma-associated differentiation antigen is human tyrosinase.
 - 13. The method according to claim 11, wherein the xenogeneic melanoma-associated differentiation antigen is human gp75.
 - 14. The method according to claim 10, wherein the xenogeneic melanoma-associated differentiation antigen is a murine differentiation antigen.
 - 15. The method according to claim 14, wherein the xenogeneic melanoma-associated differentiation antigen is murine tyrosinase.
- 16. The method according to claim 14, wherein the xenogeneic melanoma-associated differentiation antigen is murine gp75.
- 17. The method according to claim 10, wherein the plasmid has the sequence given by sequence ID No. 1 and the subject is a non-human.

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- 1 18. The method according to claim 10, wherein the plasmid has the sequence 2 given by sequence ID No. 2 and the subject is not a mouse.
 - 19. The method according to claim 1, further comprising the step of administering a syngeneic differentiation antigen of the same type as the xenogeneic differentiation antigen, said syngeneic differentiation antigen being administered at the same time as or subsequent to the xenogeneic differentiation antigen.
 - 20. A method for treating canine malignant melanoma in a dog suffering from canine malignant melanoma comprising administering to the dog an immunologically-effective amount of a xenogeneic differentiation antigen of the same type as a differentiation antigen expressed by melanoma cells of the dog.
 - 21. The method according to claim 20, wherein the xenogeneic melanoma-associated differentiation antigen is tyrosinase.
 - 22. The method according to claim 20, wherein the xenogeneic melanomaassociated differentiation antigen is human tyrosinase.
 - 23. The method according to claim 20, wherein the xenogeneic melanoma-associated differentiation antigen is administered as a vector comprising a DNA sequence encoding the xenogeneic therapeutic melanoma-associated differentiation antigen under the control of a promoter which promotes expression of the xenogeneic melanoma-associated differentiation antigen in the dog.
- The method according to claim 23, wherein the vector has the sequence given by Seq. ID. NO. 1.

- 1 25. The method according to claim 23, wherein the vector has the sequence 2 given by Seq. ID. NO. 2.
- 1 26. A vector comprising the sequence given by Seq. ID No. 1.
- 1 27. A vector comprising the sequence given by Seq. ID No. 2.